

INTERNATIONAL SEARCH REPORT

Int'l Application No
PCT/EP 03/10031

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H01B7/08

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H01B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT.

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4 616 717 A (LUETZOW EDWIN J) 14 October 1986 (1986-10-14) column 3, line 50 -column 10, line 39; figures 1-3 -----	1-12
A	EP 0 590 694 A (YAZAKI CORP) 6 April 1994 (1994-04-06) column 5, line 14 -column 12, line 11; figures 1-16 -----	1-12



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

& document member of the same patent family

Date of the actual completion of the international search

Date of mailing of the international search report

20 February 2004

02/03/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Demolder, J

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/EP/03/10031

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
US 4616717	A	14-10-1986	US	4375379 A		01-03-1983
EP 0590694	A	06-04-1994	JP	2174012 A		05-07-1990
			JP	2900342 B2		02-06-1999
			EP	0590694 A1		06-04-1994
			EP	0588386 A1		23-03-1994
			DE	68927092 D1		10-10-1996
			DE	68927092 T2		16-01-1997
			DE	68928244 D1		11-09-1997
			DE	68928244 T2		11-12-1997
			EP	0376131 A2		04-07-1990
			ES	2093613 T3		01-01-1997
			ES	2106257 T3		01-11-1997
			MX	171492 B		29-10-1993
			PH	27433 A		21-06-1993
			PT	92704 A ,B		29-06-1990
			US	5010642 A		30-04-1991